Phenomenology 2020 Symposium



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A Natural Composite Higgs via Universal Boundary Conditions

Tuesday 5 May 2020 14:15 (15 minutes)

In this talk, I will present a novel realization of a composite Higgs, which can naturally produce top partners above the current LHC bounds without increasing the tuning above 10%. This is achieved by combining softened breaking of the Higgs shift symmetry with an enhanced ('maximal') symmetry of the composite sector, which turn out to perfectly complement each other. I will finally provide a simple 5D realization of the model, featuring universal UV and IR boundary conditions for the bulk fermions that contain the SM fields and leading to a complete viable setup for a naturally light Higgs without much tuning.

Summary

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